Amendments to the Claims:

- (Currently Amended) A transceiver of a terminal for use in a TDD-based mobile communication system comprising:
 - a receiver for processing a reception signal in a reception mode:
 - a transmitter for processing a transmission signal in a transmission mode;
 - a switching mechanism operable in the transmission mode and the reception mode; and
- a ground divider for dividing grounds for the receiver, the transmitter, and the switching mechanism, such that electrical components of the receiver are coupled to a receiver ground exclusive to the receiver, electrical components of the transmitter are coupled to a transmitter ground exclusive to the transmitter, and electrical components of the switching mechanism are coupled to a common ground

wherein the ground divider comprises:

 $\underline{a} \ \underline{first} \ \underline{ground} \ \underline{separation} \ \underline{element} \ \underline{for} \ \underline{isolating} \ \underline{the} \ \underline{receiver} \ \underline{ground} \ \underline{from} \ \underline{the} \ \underline{common} \\ \underline{ground}; \underline{and}$

a second ground separation element for isolating the transmitter ground from the common ground.

- 2. (Original) The transceiver of claim 1, wherein the receiver comprises:
- a low-noise amplifier for amplifying the reception signal provided by the switching mechanism in the reception mode; and
- a reception filter for filtering the amplified reception signal and for providing the filtered reception signal to an intermediate frequency processor.
- (Original) The transceiver of claim 1, wherein the transmitter comprises:
 a transmission filter for filtering the transmission signal received from an intermediate frequency processor in the transmission mode; and
 - an amplifier for amplifying the filtered transmission signal.
 - 4. (Original) The transceiver of claim 3, wherein the transmitter further comprises:

an isolator for isolating the transmitter from signal interference created by the switching mechanism.

 (Original) The transceiver of claim 1, wherein the switching mechanism comprises:

an antenna;

a switch for selectively connecting the antenna to the receiver and the transmitter; and a duplexer positioned between the antenna and the switch.

6. (Original) The transceiver of claim 1, wherein the ground divider comprises: a first ground separation element for isolating a receiver ground for the receiver and a common ground for the switching mechanism from each other; and

a second ground separation element for isolating a transmitter ground for the transmitter and the common ground.

- (Original) The transceiver of claim 5, wherein at least one of the first and second ground separation elements is an inductor.
- (Original) The transceiver of claim 5, wherein at least one of the first and second ground separation elements is a ferrite bead.
- (Original) The transceiver of claim 2, wherein the switching mechanism comprises:

an antenna;

a duplexer connected to the antenna, the duplexer selecting transmission and reception frequency via the antenna;

a circulator for sending the reception signal from the duplexer to the receiver and for sending the transmission signal from the transmitter to the antenna, and

a switch installed on a signal line between the circulator and the receiver, wherein the switch is turned on in the reception mode.

10. (Currently Amended) A method of data communication in a TDD-based mobile communication system, the method comprising:

processing a reception signal received by a receiver of the mobile communication system in a reception mode;

processing a transmission signal transmitted by a transmitter of the mobile communication system in a transmission mode, where in a switching mechanism is operable in the transmission mode and the reception mode; and

dividing grounds for the receiver, the transmitter, and the switching mechanism, such that electrical components of the receiver are coupled to a receiver ground exclusive to the receiver, electrical components of the transmitter are coupled to a transmitter ground exclusive to the transmitter, and electrical components of the switching mechanism are coupled to a common ground,

wherein a first ground separation element is provided for isolating the receiver ground from the common ground; and

a second ground separation element is provided for isolating the transmitter ground from the common ground.

11. (Original) The method claim 10, wherein the step of processing a reception signal in the reception mode comprises:

amplifying the reception signal provided by the switching mechanism, using a lownoise amplifier;

filtering the amplified reception signal using a reception filter; and providing the filtered reception signal to an intermediate frequency processor.

12. (Previously presented) The method of claim 10, wherein the step of processing a transmission signal in a transmission mode comprises:

filtering the transmission signal received from an intermediate frequency processor using a transmission filter; and

amplifying the filtered transmission signal.

- 13. (Original) The method of claim 10, wherein the step of processing a transmission signal in a transmission mode further comprises isolating the transmitter from signal interference created by the switching mechanism.
 - 14. (Original) The method of claim 10, wherein the switching mechanism comprises: an antenna:

a switch for selectively connecting the antenna to the receiver and the transmitter; and a duplexer positioned between the antenna and the switch.

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- (Previously presented) The method of claim 10, wherein the first ground separation element is an inductor.
- (Previously presented) The method of claim 10, wherein the first ground separation element is a ferrite bead.
- (Previously presented) The method of claim 10, wherein the second ground separation element is a ferrite bead.
 - (Original) The method of claim 10, wherein the switching mechanism comprises:
 an antenna;
- a duplexer connected to the antenna, the duplexer selecting transmission and reception frequency via the antenna;
- a circulator for sending the reception signal from the duplexer to the receiver and for sending the transmission signal from the transmitter to the antenna, and
- a switch installed on a signal line between the circulator and the receiver, wherein the switch is turned on in the reception mode.

- (Currently Amended) A transceiver of a terminal for use in a TDD-based time division synchronous CDMA (TD-CDMA) mobile communication system comprising:
 - a receiver for processing a reception signal in a reception mode;
 - a transmitter for processing a transmission signal in a transmission mode;
 - a switching mechanism operable in the transmission mode and the reception mode; and
- a ground divider for dividing grounds for the receiver, the transmitter, and the switching mechanism, such that electrical components of the receiver are coupled to a receiver ground exclusive to the receiver, components of the transmitter are coupled to a transmitter ground exclusive to the transmitter, and components of the switching mechanism are coupled to a common ground [[,]]

wherein the ground divider-comprises:

- a first ground separation element for isolating the receiver ground from the common ground; and
- a second-ground separation element for isolating the transmitter ground from the common ground.